Ex:No:1	**Experiment on basic Git Commands**
Date: 24.04.2021	

Aim

- To illustrate on basic GIT commands

COMMANDS

- git config command
    - A convenience function that is used to set Git configuration values on a global or local project level. These configuration levels correspond to .gitconfig text files. Executing git config will modify a configuration text file.
    - Syntax
        - git config [<file-option>] [type] [-z|--null] name [value [value_regex]]
        - git config [<file-option>] [type] --add name value
        - git config [<file-option>] [type] --replace-all name value [value_regex]
        - git config [<file-option>] [type] [-z|--null] --get name [value_regex]
        - git config [<file-option>] [type] [-z|--null] --get-all name [value_regex]
        - git config [<file-option>] [type] [-z|--null] [--name-only] --get-regexp name_regex [value_regex]
        - git config [<file-option>] [type] [-z|--null] --get-urlmatch name URL
        - git config [<file-option>] --unset name [value_
        - regex]
        - git config [<file-option>] --unset-all name [value_regex]
        - git config [<file-option>] --rename-section old_name new_name
        - git config [<file-option>] --remove-section name
        - git config [<file-option>] [-z|--null] [--name-only] -l | --list
        - git config [<file-option>] --get-color name [default]
        - git config [<file-option>] --get-colorbool name [stdout-is-tty]
        - git config [<file-option>] -e | --edit

- git status command
    - displays the state of the working directory and the staging area.
    - Syntax
        - git status [<options>…] [--] [<pathspec>…]

OUTPUT

E:\vishal>git init
Initialized empty Git repository in E:/vishal/.git/

E:\vishal>git status
On branch master

No commits yet

Untracked files:
(use "git add <file>..." to include in what will be committed)
text1.txt

nothing added to commit but untracked files present (use "git add" to track)

E:\vishal>git add text1.txt

E:\vishal>git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
new file: text1.txt

E:\vishal>git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)
new file: text1.txt

Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: text1.txt

E:\vishal>git commit -m "1"
[master (root-commit) efd954e] 1
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 text1.txt

E:\vishal>git status
On branch master
Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: text1.txt

no changes added to commit (use "git add" and/or "git commit -a")

```
E:\vishal>git add text2.txt

E:\vishal>git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
new file: text2.txt

Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: text1.txt

E:\vishal>git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
new file: text2.txt

Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: text1.txt
modified: text2.txt

E:\vishal>git commit -m "2"
[master e7aaa7b] 2
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 text2.txt

E:\vishal>git status
On branch master
Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: text1.txt
modified: text2.txt

no changes added to commit (use "git add" and/or "git commit -a")

E:\vishal>git log
commit e7aaa7b45e75fdf9bb234ea01316f159bd14a0a4 (HEAD -> master)
Author: vishal <vishalnf@gmail.com>
Date: Fri Apr 23 22:37:07 2021 +0530


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commit efd954e6219a94c780bd5be60d8f10f97db52e19
Author: vishal <vishalnf@gmail.com>
Date: Fri Apr 23 22:35:52 2021 +0530
1
E:\vishal>
```

```
E:\Users\system32>cd /
E:\>c:
E:\>cd git

E:\git>git log
commit f87afdc8188f8a6906f950e327917f728302de72 (HEAD -> master)
Author: vishal <vishalnf@gmail.com>
Date: Fri Apr 23 21:10:39 2021 +0530

fourth commit
commit b2fdbdbaa365aa7c319be70b75ed8ca83d651710
Author: vishal<vishalnf@gmail.com>
Date: Fri Apr 23 21:25:36 2021 +0530

third commit
commit 38ec274e174380bd396356dd88d2ca1b3a590058
Author: vishal<vishalnf@gmail.com>
Date: Fri Apr 23 21:28:58 2021 +0530

second commit
commit f87afdc8188f8a6906f950e327917f728302de72
Author: vishal<vishalnf@gmail.com>
Date: Fri Apr 23 21:20:39 2021 +0530

first commit
E:\git>git diff
diff --git a/task.txt b/task.txt
index 1796fb1..0bdf84d 100644
--- a/task.txt
+++ b/task.txt
@@ -1 +1 @@
-gdwufgdjhvk
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file

E:\git>git diff f87afdc8188f8a6906f950e327917f728302de72
diff --git a/task.txt b/task.txt
index 65a8ab4..0bdf84d 100644
--- a/task.txt
+++ b/task.txt
@@ -1 +1 @@
-VISHALkongu
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file

E:\git>git diff HEAD task.txt
diff --git a/task.txt b/task.txt
index 1796fb1..0bdf84d 100644
```

```
--- a/task.txt
+++ b/task.txt
@@ -1 +1 @@
-gdwufgdjhvk
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file

E:\git>git diff HEAD~1 task.txt
diff --git a/taskone.txt b/task.txt
index f401f87..0bdf84d 100644
--- a/task.txt
+++ b/task.txt
@@ -1 +1 @@
-vishal123
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file

E:\git>git diff HEAD~2 task.txt
diff --git a/task.txt b/task.txt
index 5529939..0bdf84d 100644
--- a/task.txt
+++ b/task.txt
@@ -1 +1 @@
-VISHAL
\ No newline at end of file
+xbzvcjdshg
\ No newline at end of file

E:\git>git revert f87afdc8188f8a6906f950e327917f728302de72
error: Your local changes to the following files would be overwritten by merge:
task.txt
Please commit your changes or stash them before you merge.
Aborting
fatal: revert failed

E:\git>git commit -m"2"
[master 724d12f] 2
2 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 sample.txt

E:\git>git status
On branch master
nothing to commit, working tree clean
E:\git>git log
commit 724d12f096826128fae6066196c1b25292737be9 (HEAD -> master)
Author: vishal<vishalnf@gmail.com>
Date: Fri Apr 23 1:17:52 2021 +0530
2
```

commit 20d97fb862f113644cdcb9add8e467aba11e84d0
Author: vishal<vishalnf@gmail.com>
Date: Fri Apr 23 20:22:46 2021 +0530
fourth commit
commit b2fdbdbaa365aa7c319be70b75ed8ca83d651710
Author: vishal <vishalnf@gmail.com>
Date: Fri Apr 23 20:21:36 2021 +0530
third commit
commit 38ec274e174380bd396356dd88d2ca1b3a590058
Revert "fourth commit"
This reverts commit 20d97fb862f113644cdcb9add8e467aba11e84d0.
Conflicts:
task.txt
Please enter the commit message for your changes. Lines starting
with '#' will be ignored, and an empty message aborts the commit.
On branch master
You are currently reverting commit 20d97fb.
Changes to be committed:
modified: task.txt